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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/729,520	12/05/2003	Roy Hirst	MS305473.1/MSFTP491US 2369	
	90 02/23/2007 7 & CALVIN, LLP	EXAMINER		
24TH FLOOR, N	IATIONAL CITY CENT	RADTKE, MARK A		
1900 EAST NINTH STREET CLEVELAND, OH 44114			ART UNIT	PAPER NUMBER
			2165	
				
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
Office Action Summany	10/729,520	HIRST, ROY			
Office Action Summary	Examiner	Art Unit			
	Mark A. X Radtke	2165			
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the o	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be tinded will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 19	December 2006.				
· —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
·	nding in the emplication				
4)⊠ Claim(s) <u>1-4,6-24,26-30 and 32-34</u> is/are pe		•			
4a) Of the above claim(s) is/are withd	rawii ilom consideration.				
5) Claim(s) is/are allowed. 6) Claim(s) 1-4 6-24 26-30 and 32-34 is/are re	· piected				
6)⊠ Claim(s) <u>1-4, 6-24, 26-30 and 32-34</u> is/are rejected. 7)□ Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	l/or election requirement				
· · · · · · · · · · · · · · · · · · ·					
Application Papers					
9) The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ a	·				
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the	Examiner. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informat Patent Application 6) Other:					

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 29 November 2006 has been entered.

Remarks

2. In response to communications filed on 29 November 2006, claim(s) 31 is/are cancelled, claim(s) 1-2, 4, 6-9, 11-13 and 18-22 is/are amended, and new claim(s) 33 and 34 is/are added per Applicant's request. Therefore, claims 1-4, 6-24, 26-30 and 32-34 are presently pending in the application, of which, claim(s) 1, 22-23 and 32-33 is/are presented in independent form.

Claim Objections

3. Claims 7 and 16 are objected to because of the following informalities:

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- a. In claim 7, at line 2, "can be" should be deleted.
- b. In claim 16, at line 2, "ad" should be changed to --and--.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-4, 6-7, 9-12, 20, 22-24, 26, 28-29 and 32-33 are rejected under 35 U.S.C. 102(b) as being anticipated by <u>Sadahiro</u> (U.S. Pat. No. 6,237,136).

As to claim 1, <u>Sadahiro</u> teaches a system that facilitates finding documentation (see Abstract), comprising:

a query component that receives a request for technical documentation, the request comprising terminology of a first vocabulary corresponding to a first programming language (see figure 6, step 402 and see figure 2, element 202 and see column 2, lines 43-48);

a mapping component that correlates terminology of the first vocabulary to semantically equivalent terminology of a second vocabulary related to a second

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programming language (see figure 6, step 408 and see figure 2, element 204 and see column 3, lines 1-7); and

a discovery component that retrieves technical documentation based upon the terminology of the second vocabulary that is semantically equivalent to the terminology of the first vocabulary employed in the request (see column 3, lines 12-19).

As to claim 2, <u>Sadahiro</u> teaches the query component receives user input as a request for information, the request including at least one of text input, voice encoded input, video camera input, and audio input (see column 3, line 58 – column 4, line 11).

As to claims 3 and 28, <u>Sadahiro</u> teaches the request for information is in the form of a natural language or syntax that is familiar to the user including terms and expressions that have been employed over time by the user (See column 3, lines 1-7. A user must be "familiar" with a language to program in it).

As to claim 4, <u>Sadahiro</u> teaches the user input is processed by a parser into function objects relating to information components that are processed to facilitate desired information retrieval (see Abstract).

As to claim 6, <u>Sadahiro</u> teaches the mapping component includes rules or models that map or analogize a first set of terms with a second set of terms (see column 4, line 42, "syntax rules").

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As to claim 7, <u>Sadahiro</u> teaches the functional objects are employed by the mapping component to build or create search terms or queries that are can be applied to a remote or local database (see column 2, line 60, "function database").

As to claim 9, <u>Sadahiro</u> teaches the functional objects are associated with a decision-theoretic analysis that includes analyzing extrinsic evidence or data of a user's present context state, and directing information in accordance with the data (see column 5, lines 12-35).

As to claim 10, <u>Sadahiro</u> teaches the evidence includes at least one of keyboard activities, mouse movements, microphone inputs, camera inputs, time information, and electronic calendar information (see column 3, line 58 – column 4, line 11).

As to claim 11, <u>Sadahiro</u> teaches the discovery component includes at least one of an automated search engine, an indexing engine, and a structured query language engine for retrieving information from a database (see column 4, line 59 – column 5, line 12).

As to claims 12 and 29, <u>Sadahiro</u> teaches the mapping component further comprising at least one of a technical vocabulary object, a development vocabulary

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object, a synonym object, an index object, and a prioritization object to facilitate retrieval of information (see column 4, lines 54-67).

As to claim 20, <u>Sadahiro</u> teaches further comprising a graphical user interface to depict a cross reference of terminology of the first vocabulary with terminology of the second vocabulary (see figure 4).

As to claim 22, <u>Sadahiro</u> teaches a computer readable medium having computer readable instructions stored thereon for implementing the query component, the mapping component, and the discovery component of claim 1 (see Abstract).

As to claim 23, <u>Sadahiro</u> teaches a computer-based information retrieval system (see Abstract), comprising:

For the remaining steps of this claim applicant(s) is/are directed to the remarks and discussions made in claim 1 above.

As to claim 24, <u>Sadahiro</u> teaches a method to facilitate automated information retrieval (see Abstract), comprising:

For the remaining steps of this claim applicant(s) is/are directed to the remarks and discussions made in claim 1 above.

As to claim 26, <u>Sadahiro</u> teaches further comprising:

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For the remaining steps of this claim applicant(s) is/are directed to the remarks and discussions made in claim 1 above.

As to claim 32, <u>Sadahiro</u> teaches a computer readable medium having a data structure stored thereon (see Abstract), the data structure comprising:

For the remaining steps of this claim applicant(s) is/are directed to the remarks and discussions made in claim 1 above.

As to claim 33, <u>Sadahiro</u> teaches a computer implemented method for finding technical documentation (see Abstract), the method comprising:

For the remaining steps of this claim applicant(s) is/are directed to the remarks and discussions made in claim 1 above.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 8, 13-19, 27, 30 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Sadahiro</u> as applied to claims 1, 24 and 26 above and further in view of <u>Hofmann</u> (U.S. Pat. No. 6,687,696).

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As to claims 8 and 27, <u>Sadahiro</u> does not explicitly teach the mapping component further comprises at least one of a rule, a learning algorithm, an automated classification method, an inference model, a probability model, a statistical model, a neural network, a Support Vector Machine (SVM), a Naïve Bayes model, a Bayes network, a decision tree, a similarity-based model, a vector-based model, and a Hidden Markov Model.

Hofmann teaches the mapping component further comprises at least one of a rule, a learning algorithm, an automated classification method, an inference model, a probability model, a statistical model, a neural network, a Support Vector Machine (SVM), a Naïve Bayes model, a Bayes network, a decision tree, a similarity-based model, a vector-based model, and a Hidden Markov Model (see column 2, lines 18-67).

Therefore, it would have been obvious to one having ordinary skill in the relevant art at the time the invention was made to have modified <u>Sadahiro</u> by the teaching of <u>Hofmann</u> because "an automated filtering system has to take into account the diversity of preferences and the inherent relativity of information value" (see <u>Hofmann</u>, column 1, lines 30-34).

As to claim 13, <u>Sadahiro</u> does not explicitly teach the discovery component further comprising an instrumentation component to determined an importance value for a retrieved technical document.

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Hofmann teaches the discovery component further comprising an instrumentation component to determined an importance value for a retrieved technical document (see column 2, line 51, "score").

Therefore, it would have been obvious to one having ordinary skill in the relevant art at the time the invention was made to have modified <u>Sadahiro</u> by the teaching of <u>Hofmann</u> because "an automated filtering system has to take into account the diversity of preferences and the inherent relativity of information value" (see <u>Hofmann</u>, column 1, lines 30-34).

As to claim 14, <u>Sadahiro</u>, as modified, teaches the instrumentation component tracks and maps successful and unsuccessful attempts to discover and interpret technology-specific and programming-language-specific functionality employing a natural or professional language (see <u>Hofmann</u>, column 2, lines 27-31).

As to claim 15, <u>Sadahiro</u>, as modified, teaches further comprising a database for search attempts that indicates a technical value for selected technical information within a documentation set or other data structure residing in the database (see <u>Hofmann</u>, column 2, line 51).

As to claim 16, <u>Sadahiro</u>, as modified, teaches the instrumentation component monitors at least one of visible technical documentation, search engine activity, ad network traffic activity (see <u>Hofmann</u>, column 2, lines 27-31).

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As to claims 17 and 30, <u>Sadahiro</u>, as modified, teaches the instrumentation component monitors at least one of a counter, a type of word or phrase employed in a search, an implied or inferred measurement of data activity and an explicit request from users regarding a data source's technical value, ranking or merit (see <u>Hofmann</u>, column 17, lines 23-53).

As to claim 18, <u>Sadahiro</u>, as modified, teaches further comprising a graphical user interface to determine a value for a technical document (see figure 4).

As to claims 19 and 34, <u>Sadahiro</u>, as modified, teaches the user interface includes at least one of a ratings scale, a feedback component to allow users to determine what other thought of the technical document, and an input box to enable users to submit feedback as to why they ranked a particular technical document in the manner that was selected (see <u>Hofmann</u>, column 17, lines 25-53).

8. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sadahiro as applied to claim 20 above, and further in view of Jennings ("Special Edition Using Access 97, Second Edition", published 9 October 1997, section "Working with Relations, Key Fields, and Indexes").

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As to claim 21, <u>Sadahiro</u> does not explicitly teach the cross reference includes at least one of a table of terminology of the first vocabulary displayed with a table of terminology of the second vocabulary, a single table showing cross-functional relationships include arrows or other indicators depicting relationships between terminology, a modular or graphical output including a block diagram in terminology of the first vocabulary that highlights or points to a corresponding block diagram of terminology of the second vocabulary, a system drawing to show one component's relationship to the system in terminology of the first vocabulary while also illustrating, fading, superimposing, or highlighting a related term on the system drawing to detail a relationship between terminology of the second vocabulary, and contrast blocks of diagrams that are displayed detailing differences with conventional terminology or design practices.

Jennings teaches the cross reference includes at least one of a table of terminology of the first vocabulary displayed with a table of terminology of the second vocabulary, a single table showing cross-functional relationships include arrows or other indicators depicting relationships between terminology, a modular or graphical output including a block diagram in terminology of the first vocabulary that highlights or points to a corresponding block diagram of terminology of the second vocabulary, a system drawing to show one component's relationship to the system in terminology of the first vocabulary while also illustrating, fading, superimposing, or highlighting a related term on the system drawing to detail a relationship between terminology of the second

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vocabulary, and contrast blocks of diagrams that are displayed detailing differences with conventional terminology or design practices (see figure 4.31).

Therefore, it would have been obvious to one having ordinary skill in the relevant art at the time the invention was made to modify <u>Sadahiro</u> by the teaching of <u>Jennings</u> because "the Code Generator 204 itself has a GUI" (see <u>Sadahiro</u>, column 18, line 39).

Response to Arguments

9. Applicant's arguments filed on 29 November 2006 with respect to the rejected claims in view of the cited references have been fully considered but are moot in view of the new grounds for rejection.

Additional References

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following patents are cited to further show the state of art with respect to document translation in general:

Doc. No.	Assigned to
US 4943932 A	Lark; Jay S. et al.
US 6158031 A	Mack; Keith A. et al.
US 6651253 B2	Dudkiewicz; Gil Gavriel et al.
US 20030126559 A1	Fuhrmann, Nils
US 6675370 B1	Sundaresan: Neelakantan

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"Literate Programming" by Donald Knuth

"The Design of Distributed Hyperlinked Programming Documentation" by Lisa Friendly

"Programming Pearls - Literate Programming" by Jon Bentley

"Literate Programming Simplified" by Norman Ramsey

Conclusion

11. Any inquiry concerning this communication or earlier communications should be directed to the examiner, Mark A. Radtke. The examiner's telephone number is (571) 272-7163, and the examiner can normally be reached between 9 AM and 5 PM, Monday through Friday.

If attempts to contact the examiner are unsuccessful, the examiner's supervisor, Jeffrey Gaffin, can be reached at (571) 272-4146.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Customer Service at (800) 786-9199.

maxr

19 February 2007

(m 2/2010)

JEFFREY GAFFIN
ERVISORY PATENT EXAMINED
TECHNOLOGY CENTER 2100